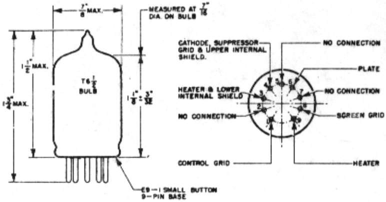
ADVANCE ELECTRON TUBE DATA SHEET

WESTERN ELECTRIC 404A ELECTRON TUBE

404A
MINIATURE PENTODE



DESCRIPTION

This tube is a miniature pentode of the unipotential cathode type. It is designed for use in high-gain amplifiers at high and ultra-high frequencies.

MAXIMUM RATINGS (Design Center Values)

Plate Voltage	180	volts
Screen-Grid Voltage	150	volts
Plate Dissipation	3	watts
Screen-Grid Dissipation	0.75	watt
Cathode Current	35	milliamperes
Heater-Cathode Voltage	50	volts
Grid Resistance	0.1	megohm
Bulb Temperature	120°	Centigrade

GENERAL CHARACTERISTICS

ELECTRICAL DATA

Heater Voltage, A-C or D-C	6.3	volts
Heater Current	300	milliamperes

Direct Interelectrode Capacitances	Without External Shield	With External Shield (RMA #315)	
Grid to Plate, Maximum	.05	.04	μμf
Input	7.0	7.1	μμf
Output	2.5	2.9	μμf

MECHANICAL DATA

Cathode	Coated Unipotential
Bulb	T 6-1/2
Base	Small Button, 9-pin
Mounting Position	Any

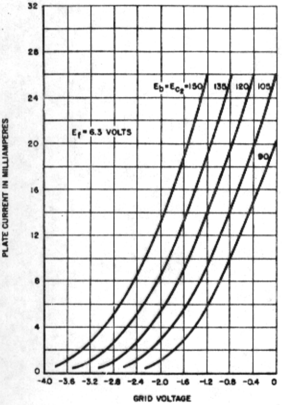
OPERATING CONDITIONS AND CHARACTERISTICS

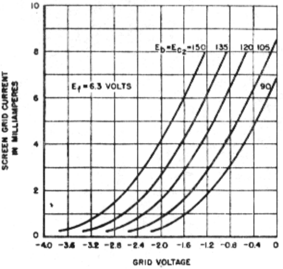
		*	
Plate Supply Voltage	150	160	volts
Screen-Grid Supply Voltage	150	160	volts
Control Grid Voltage	0	+8.5	volts
Plate Current	13	13	milliamperes
Screen-Grid Current	4.5	4.5	milliamperes
Cathode Resistor	110	600	ohms
Transconductance	12500	12500	microhmos

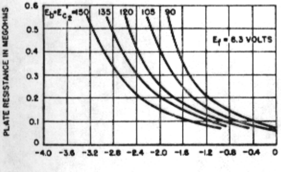
*Operating conditions to minimize gain variations due to supply voltage fluctuations.

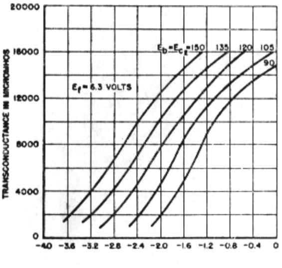
(CHARACTERISTICS CURVES ON REVERSE SIDE)

Western Electric


PLATE CURRENT IN MILLIAMPERES
GRID VOLTAGE
E_f = 6.3 VOLTS
E_b = E_{c_2} = 150
135
120
105
90


SCREEN GRID CURRENT IN MILLIAMPERES
GRID VOLTAGE
E_f = 6.3 VOLTS
E_b = E_{c_2} = 150
135
120
105
90


PLATE RESISTANCE IN MEGOHMS
E_f = 6.3 VOLTS
E_b = E_{c_2} = 150
135
120
105
90


TRANSCONDUCTANCE IN MICROMHOS
E_f = 6.3 VOLTS
E_b = E_{c_2} = 150
135
120
105
90